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NEWS	4	JUN 26	NUTRACEUT and PHARMAML no longer updated
NEWS	5	JUN 29	IMSCOPROFILE now reloaded monthly
NEWS	6	JUN 29	EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields
NEWS	7	JUL 09	PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS	8	JUL 14	USGENE enhances coverage of patent sequence location (PSL) data
NEWS	9	JUL 27	CA/CAplus enhanced with new citing references
NEWS	10	JUL 16	GBFULL adds patent backfile data to 1855
NEWS	11	JUL 21	USGENE adds bibliographic and sequence information
NEWS	12	JUL 28	EPFULL adds first-page images and applicant-cited references
NEWS	13	JUL 28	INPADOCDB and INPAFAMDB add Russian legal status data
NEWS	14	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes
NEWS	15	AUG 17	CAS REGISTRY, the Global Standard for Chemical Research, Approaches 50 Millionth Registration Milestone
NEWS	16	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS	17	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS	18	AUG 24	CA/CAplus enhanced with legal status information for U.S. patents

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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STRUCTURE FILE UPDATES: 3 SEP 2009 HIGHEST RN 1180131-54-7  
DICTIONARY FILE UPDATES: 3 SEP 2009 HIGHEST RN 1180131-54-7

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

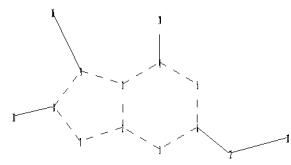
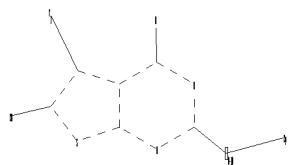
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<http://www.cas.org/support/stnqen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10542940.str

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chain nodes :

11 12 13 16

ring nodes :

1 2 3 4 5 6 7 8 9

ring/chain nodes :

10

chain bonds :

4-10 6-12 8-11 9-16 12-13

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-10 5-6 7-8 8-9 9-16 12-13

exact bonds :

6-12 8-11

isolated ring systems :

containing 1 :

G1:H,Cb,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
11:CLASS 12:CLASS 13:Atom 16:CLASS

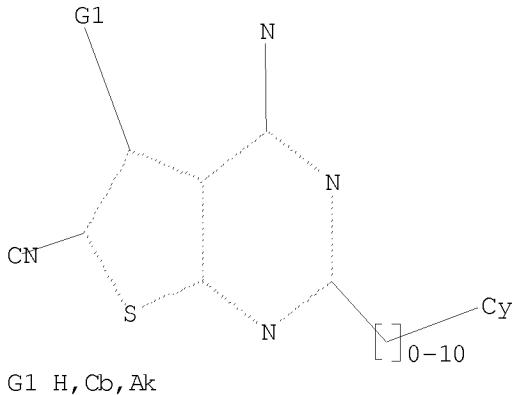
L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR

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Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 24 TO ITERATE

100.0% PROCESSED 24 ITERATIONS 11 ANSWERS
SEARCH TIME: 00.00.01
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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 187 TO 773
PROJECTED ANSWERS: 22 TO 418
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L2 11 SEA SSS SAM L1

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=> s 11 ful
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 185.40 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 11:32:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 412 TO ITERATE
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100.0% PROCESSED 412 ITERATIONS 161 ANSWERS
SEARCH TIME: 00.00.01
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L3 161 SEA SSS FUL L1

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=> fil capl
COST IN U.S. DOLLARS SINCE FILE TOTAL
                           ENTRY SESSION
FULL ESTIMATED COST          185.88 186.32
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FILE 'CAPLUS' ENTERED AT 11:32:25 ON 04 SEP 2009
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FILE COVERS 1907 - 4 Sep 2009 VOL 151 ISS 11  
FILE LAST UPDATED: 3 Sep 2009 (20090903/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

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L4          3 L3

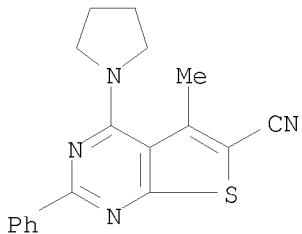
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      885912 2005/SO
L5          3 L4 NOT (2009/SO OR 2008/SO OR 2007/SO OR 2006/SO OR 2005/SO)

=> d 15 ibib abs hitstr 1-3
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L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2009:846103 CAPLUS  
 DOCUMENT NUMBER: 151:92840  
 TITLE: Method using lifespan-altering compounds for altering the lifespan of eukaryotic organisms, and screening for such compounds  
 INVENTOR(S): Goldfarb, David Scott  
 PATENT ASSIGNEE(S): University of Rochester, USA  
 SOURCE: U.S. Pat. Appl. Publ., 57pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090163545 A1		20090625	US 2008-XE341615	20081222
PRIORITY APPLN. INFO.:			US 2007-16362P	20071221
			US 2008-23801P	20080125

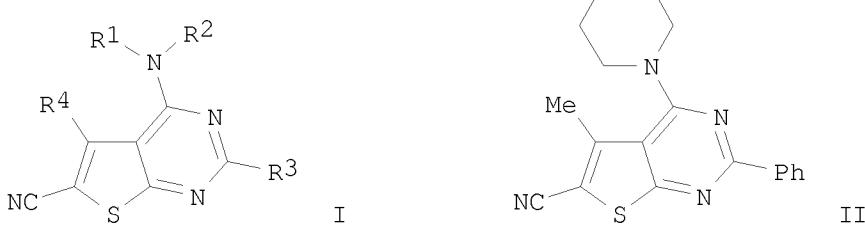
- AB The invention discloses a method for altering the lifespan of a eukaryotic organism. The method comprises the steps of providing a lifespan-altering compound, and administering an effective amount of the compound to a eukaryotic organism, such that the lifespan of the organism is altered. In one embodiment, the compound is identified using the DeaD assay. [This abstract record is one of 20 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]
- IT 667407-46-7  
 RL: PAC (Pharmacological activity); BIOL (Biological study)  
 (method using lifespan-altering compds. for altering lifespan of eukaryotic organisms, and screening for such compds.)
- RN 667407-46-7 CAPLUS  
 CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
 5-methyl-2-phenyl-4-(1-pyrrolidinyl)- (CA INDEX NAME)



L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:633932 CAPLUS  
 DOCUMENT NUMBER: 141:157133  
 TITLE: Preparation of  
 4-aminothieno[2,3-d]pyrimidine-6-carbonitrile  
 derivatives as PDE7 inhibitors  
 INVENTOR(S): Terricabras Belart, Emma; Segarra Matamoros, Victor  
 Manuel; Alvarez-Builla Gomez, Julio; Vaquero Lopez,  
 Juan Jose; Minguez Ortega, Jose Miguel  
 PATENT ASSIGNEE(S): Almirall Prodesfarma S.A., Spain  
 SOURCE: PCT Int. Appl., 124 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004065391	A1	20040805	WO 2004-EP584	20040123
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
ES 2217956	A1	20041101	ES 2003-172	20030123
ES 2217956	B1	20060401		
EP 1590352	A1	20051102	EP 2004-704579	20040123
EP 1590352	B1	20070627		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1761671	A	20060419	CN 2004-80007362	20040123
JP 2006515604	T	20060601	JP 2006-500010	20040123
AT 365742	T	20070715	AT 2004-704579	20040123
ES 2289475	T3	20080201	ES 2004-704579	20040123
US 20060229306	A1	20061012	US 2005-542940	20050721
PRIORITY APPLN. INFO.:			ES 2003-172	A 20030123
			WO 2004-EP584	W 20040123

OTHER SOURCE(S): MARPAT 141:157133  
 GI



AB Title compds. I [R1-2 = H, alk(en/yn)yl, etc.; R3 = (CH<sub>2</sub>)<sub>n</sub>-G; n = 0-4; G =

mono/bicyclic (hetero)aryl; R4 = H, alkyl, aryl] are prepared. For instance, 5-methyl-4-oxo-2-phenyldihydrothieno[2,3-d]pyrimidine-6-carbonitrile (preparation given) is treated with an appropriately substituted piperazine to give II. All compds. of the invention have IC50 < 10  $\mu$ M for PDE7 inhibition. I are useful in the treatment, prevention or suppression of pathol. conditions, diseases and disorders susceptible of being improved by inhibition of PDE7.

- IT 667407-47-8P, 5-Methyl-4-(4-methylpiperazin-1-yl)-2-phenylthieno[2,3-d]pyrimidine-6-carbonitrile 731855-68-8P,  
 4-(4-Ethylpiperazin-1-yl)-5-methyl-2-phenylthieno[2,3-d]pyrimidine-6-carbonitrile 731855-69-9P,  
 4-(4-Ethylpiperazin-1-yl)-2-(4-methoxyphenyl)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731855-70-2P,  
 4-(Diethylamino)-5-methyl-2-phenylthieno[2,3-d]pyrimidine-6-carbonitrile 731855-71-3P, 5-Methyl-2-phenyl-4-(piperidin-1-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731855-72-4P,  
 5-Methyl-2-(4-nitrophenyl)-4-(piperidin-1-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731855-73-5P,  
 2-(4-Methoxyphenyl)-5-methyl-4-(piperidin-1-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731855-74-6P,  
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 5-Methyl-2-phenyl-4-(piperazin-1-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731855-76-8P, 2-(4-Methoxyphenyl)-5-methyl-4-(4-methylpiperazin-1-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731855-77-9P,  
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 4-(Cyclopentylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-45-4P,  
 4-[Allyl(methyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-47-6P,  
 5-Methyl-4-[methyl(prop-2-ynyl)amino]-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-49-8P,  
 4-[(2-Hydroxyethyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-50-1P,  
 4-[(2-Methoxyethyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-52-3P,  
 4-[(2-(Dimethylamino)ethyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-54-5P, 5-Methyl-4-(3-methylpiperazin-1-yl)-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-56-7P, 4-(3,5-Dimethylpiperazin-1-yl)-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-58-9P, 4-(4-Acetyl)piperazin-1-yl)-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile

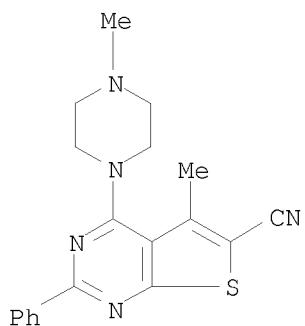
731856-60-3P, 4-[(2-Aminoethyl)(methyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-62-5P 731856-64-7P,  
5-Methyl-4-(1H-pyrazol-1-yl)-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-66-9P,  
4-(1H-Imidazol-1-yl)-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-68-1P,  
5-Methyl-4-(2H-1,2,3-triazol-2-yl)-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-70-5P,  
5-Methyl-4-(1H-1,2,4-triazol-1-yl)-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-72-7P,  
2-(3,4-Dimethoxybenzyl)-5-methyl-4-(morpholin-4-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-73-8P,  
2-(3,4-Dimethoxybenzyl)-5-methyl-4-(4-methylpiperazin-1-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-74-9P,  
2-(3,4-Dimethoxybenzyl)-5-methyl-4-(methylamino)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-75-0P,  
2-(3,4-Dimethoxybenzyl)-4-(ethylamino)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-76-1P,  
2-(3,4-Dimethoxybenzyl)-5-methyl-4-(propylamino)thieno[2,3-d]pyrimidine-6-carbonitrile 731856-77-2P,  
4-(Cyclopropylamino)-2-(3,4-dimethoxybenzyl)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-78-3P,  
4-(Cyclobutylamino)-2-(3,4-dimethoxybenzyl)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-79-4P,  
2-(3,4-Dimethoxybenzyl)-4-(dimethylamino)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-80-7P,  
2-(3,4-Dimethoxybenzyl)-4-[ethyl(methyl)amino]-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-81-8P,  
4-(Diethylamino)-2-(3,4-dimethoxybenzyl)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-82-9P,  
4-[Allyl(methyl)amino]-2-(3,4-dimethoxybenzyl)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-83-0P,  
2-(3,4-Dimethoxybenzyl)-5-methyl-4-[methyl(prop-2-ynyl)amino]thieno[2,3-d]pyrimidine-6-carbonitrile 731856-84-1P,  
2-(3,4-Dimethoxybenzyl)-4-[(2-hydroxyethyl)amino]-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-85-2P,  
2-(3,4-Dimethoxybenzyl)-4-[(2-hydroxyethyl)(methyl)amino]-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-86-3P,  
2-(3,4-Dimethoxybenzyl)-4-[(2-methoxyethyl)amino]-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731856-87-4P,  
4-[(2-(Dimethylamino)ethyl)(methyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-88-5P, 5-Methyl-4-(morpholin-4-yl)-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-89-6P, 5-Methyl-4-(4-methylpiperazin-1-yl)-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-90-9P, 5-Methyl-4-(methylamino)-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-91-0P, 4-(Ethylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-92-1P, 5-Methyl-4-(propylamino)-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-93-2P, 4-(Isopropylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
731856-94-3P, 4-(sec-Butylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile

731856-95-4P, 4-[(1-Ethylpropyl)amino]-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731856-96-5P, 4-(tert-Butylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731856-97-6P, 4-(Cyclopropylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731856-98-7P, 4-(Cyclobutylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731856-99-8P, 4-(Dimethylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-00-4P, 4-[Ethyl(methyl)amino]-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-01-5P, 4-(Diethylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-02-6P, 4-[Allyl(methyl)amino]-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-03-7P, 5-Methyl-4-[methyl(prop-2-ynyl)amino]-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-04-8P, 4-[(2-Hydroxyethyl)amino]-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-05-9P, 4-[(2-Methoxyethyl)amino]-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-06-0P, 4-[(2-Hydroxyethyl)(methyl)amino]-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 731857-07-1P, 5-Methyl-4-(4-methylpiperazin-1-yl)-2-(2-phenylethyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731857-08-2P  
 , 4-(Cyclobutylamino)-5-methyl-2-(2-phenylethyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731857-09-3P,  
 4-(Diethylamino)-5-methyl-2-(2-phenylethyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731857-10-6P,  
 5-Methyl-4-(4-methylpiperazin-1-yl)-2-(3-phenylpropyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731857-11-7P,  
 4-(Diethylamino)-5-methyl-2-(3-phenylpropyl)thieno[2,3-d]pyrimidine-6-carbonitrile 731857-12-8P,  
 2-(3,5-Dimethoxyphenyl)-4-[(2-hydroxyethyl)methylamino]-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731857-13-9P,  
 2-(3,5-Dimethoxyphenyl)-5-methyl-4-(morpholin-4-yl)thieno[2,3-d]pyrimidine-6-carbonitrile 731857-14-0P,  
 2-(3,5-Dimethoxyphenyl)-4-(ethylamino)-5-methylthieno[2,3-d]pyrimidine-6-carbonitrile 731857-15-1P,  
 4-(Isobutylamino)-5-methyl-2-(3,4,5-trimethoxybenzyl)thieno[2,3-d]pyrimidine-6-carbonitrile  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

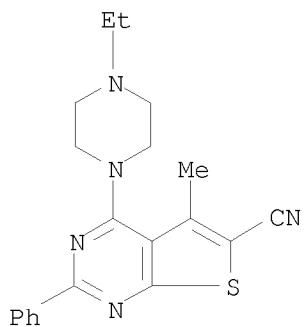
(preparation of 4-aminothieno[2,3-d]pyrimidine-6-carbonitrile derivs. as pde7 inhibitors)

RN 667407-47-8 CAPLUS

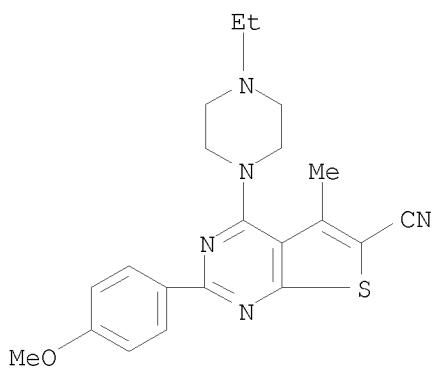
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
 5-methyl-4-(4-methyl-1-piperazinyl)-2-phenyl- (CA INDEX NAME)



RN 731855-68-8 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(4-ethyl-1-piperazinyl)-5-methyl-2-phenyl- (CA INDEX NAME)

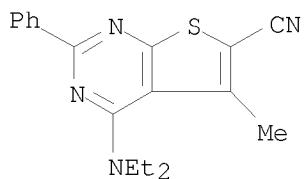


RN 731855-69-9 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(4-ethyl-1-piperazinyl)-2-(4-methoxyphenyl)-5-methyl- (CA INDEX NAME)



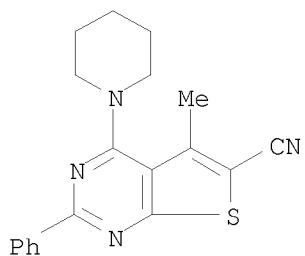
RN 731855-70-2 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-phenyl- (CA INDEX NAME)

10542940



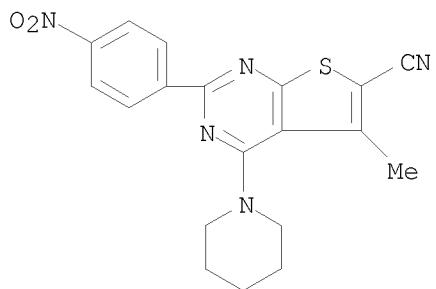
RN 731855-71-3 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-2-phenyl-4-(1-piperidinyl)- (CA INDEX NAME)



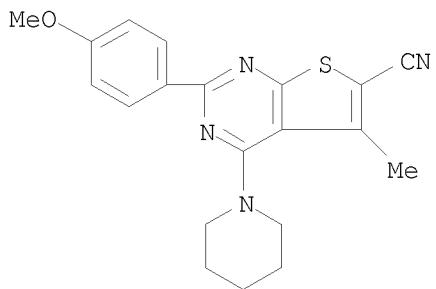
RN 731855-72-4 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-2-(4-nitrophenyl)-4-(1-piperidinyl)- (CA INDEX NAME)



RN 731855-73-5 CAPLUS

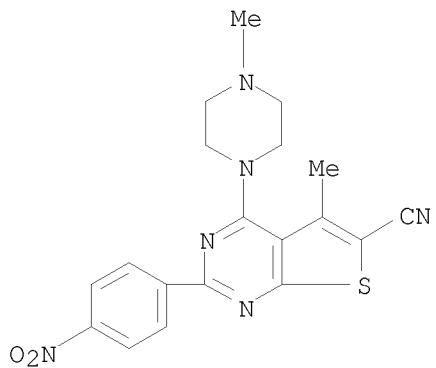
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-methoxyphenyl)-5-methyl-4-(1-piperidinyl)- (CA INDEX NAME)



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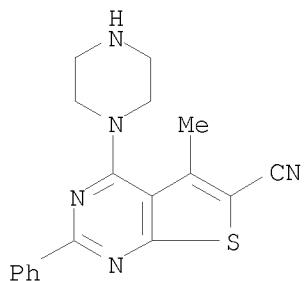
RN 731855-74-6 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-methyl-1-piperazinyl)-2-(4-nitrophenyl)- (CA INDEX NAME)



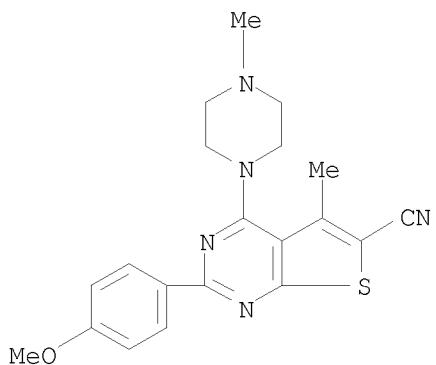
RN 731855-75-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-2-phenyl-4-(1-piperazinyl)- (CA INDEX NAME)



RN 731855-76-8 CAPLUS

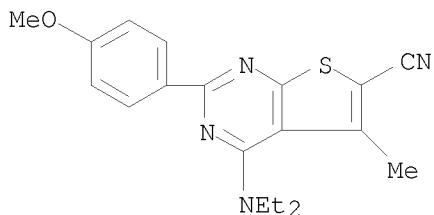
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-methoxyphenyl)-5-methyl-4-(4-methyl-1-piperazinyl)- (CA INDEX NAME)



10542940

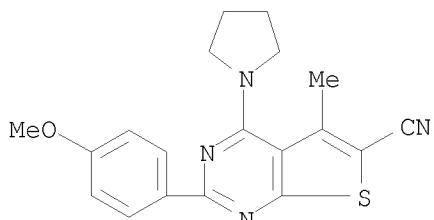
RN 731855-77-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-2-(4-methoxyphenyl)-5-methyl- (CA INDEX NAME)



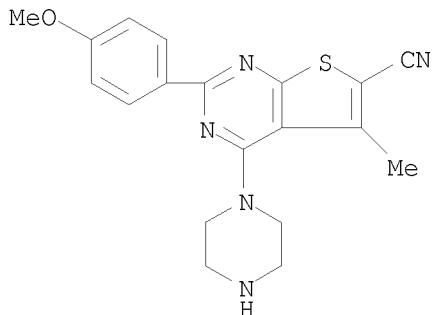
RN 731855-78-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-methoxyphenyl)-5-methyl-4-(1-pyrrolidinyl)- (CA INDEX NAME)



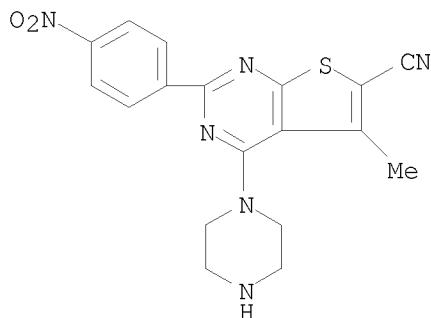
RN 731855-79-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-methoxyphenyl)-5-methyl-4-(1-piperazinyl)- (CA INDEX NAME)



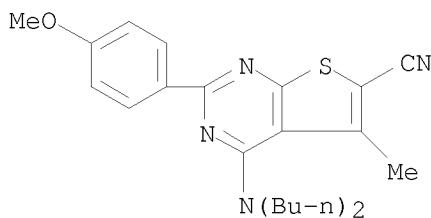
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CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-2-(4-nitrophenyl)-4-(1-piperazinyl)- (CA INDEX NAME)



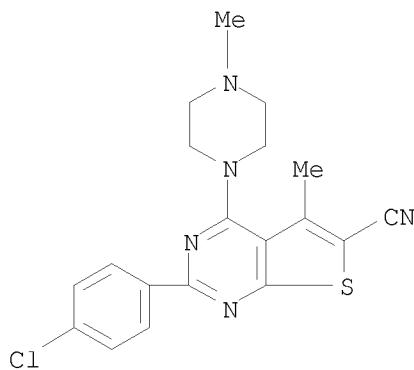
RN 731855-81-5 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(dibutylamino)-2-(4-methoxyphenyl)-5-methyl- (CA INDEX NAME)



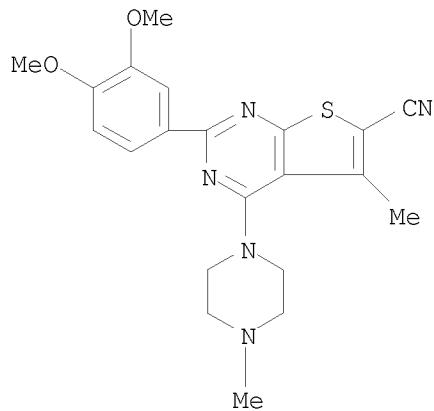
RN 731855-82-6 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-chlorophenyl)-5-methyl-4-(4-methyl-1-piperazinyl)- (CA INDEX NAME)

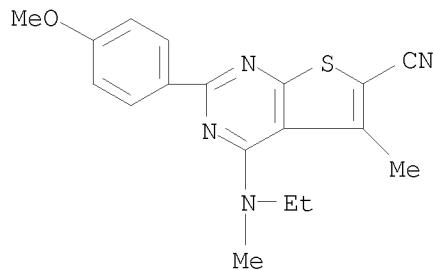


RN 731855-83-7 CAPLUS

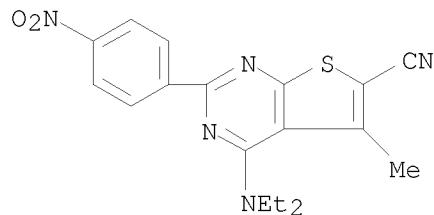
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,4-dimethoxyphenyl)-5-methyl-4-(4-methyl-1-piperazinyl)- (CA INDEX NAME)



RN 731855-84-8 CAPLUS

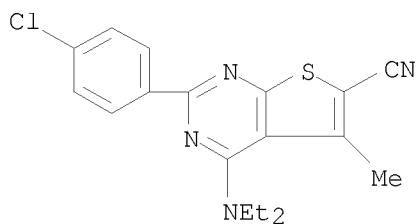
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(ethylmethylamino)-2-(4-methoxyphenyl)-5-methyl- (CA INDEX NAME)

RN 731855-85-9 CAPLUS

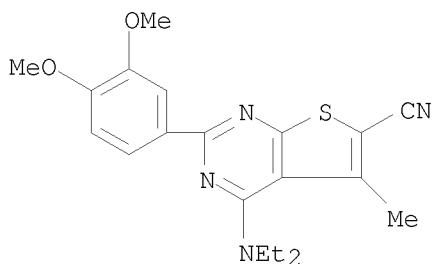
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-(4-nitrophenyl)- (CA INDEX NAME)

RN 731855-86-0 CAPLUS

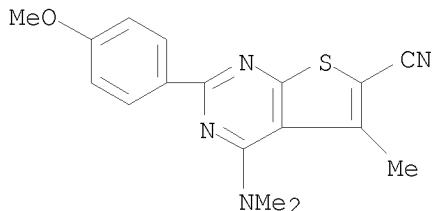
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-chlorophenyl)-4-(diethylamino)-5-methyl- (CA INDEX NAME)



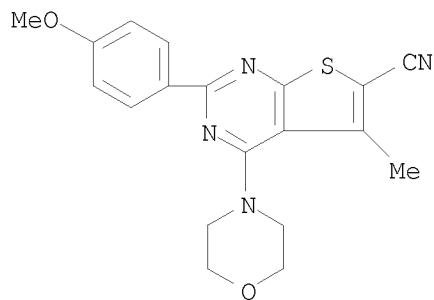
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CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-2-(3,4-dimethoxyphenyl)-5-methyl- (CA INDEX NAME)



RN 731855-89-3 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(dimethylamino)-2-(4-methoxyphenyl)-5-methyl- (CA INDEX NAME)

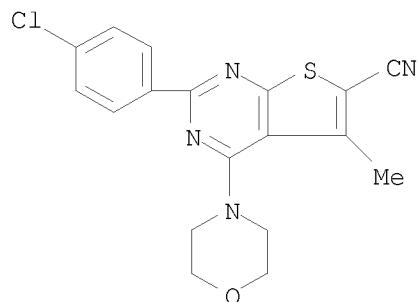


RN 731855-90-6 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-methoxyphenyl)-5-methyl-4-(4-morpholinyl)- (CA INDEX NAME)



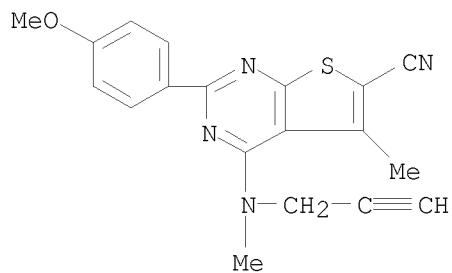
RN 731855-91-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-chlorophenyl)-5-methyl-4-(4-morpholinyl)- (CA INDEX NAME)



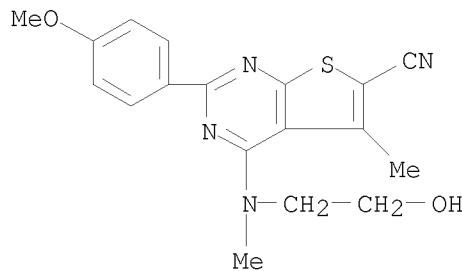
RN 731855-92-8 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(4-methoxyphenyl)-5-methyl-4-(methyl-2-propyn-1-ylamino)- (CA INDEX NAME)



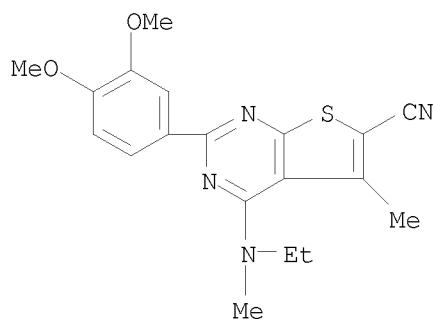
RN 731855-93-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(2-hydroxyethyl)methylamino]-2-(4-methoxyphenyl)-5-methyl- (CA INDEX NAME)



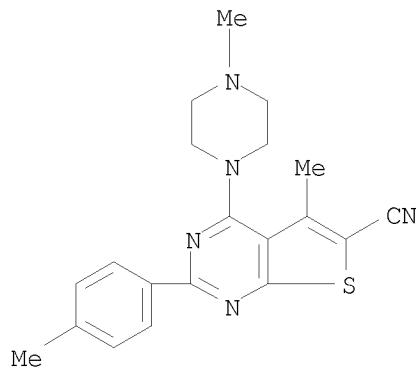
RN 731855-94-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,4-dimethoxyphenyl)-4-(ethylmethylamino)-5-methyl- (CA INDEX NAME)



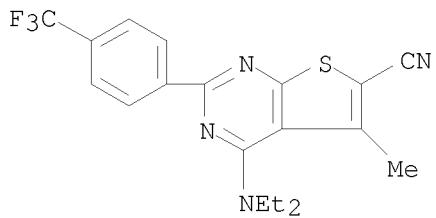
RN 731855-95-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-2-(4-methylphenyl)-4-(4-methyl-1-piperazinyl)- (CA INDEX NAME)



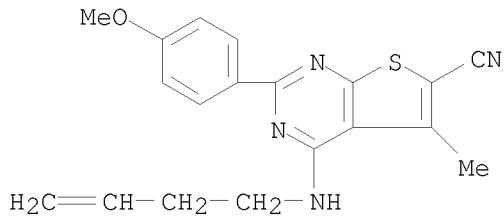
RN 731855-96-2 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



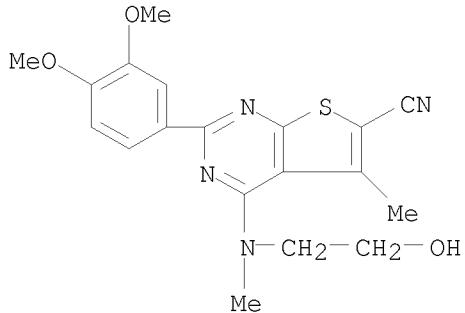
RN 731855-97-3 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(3-buten-1-ylamino)-2-(4-methoxyphenyl)-5-methyl- (CA INDEX NAME)



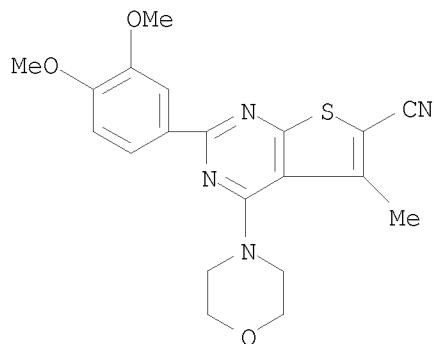
RN 731855-98-4 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,4-dimethoxyphenyl)-4-[(2-hydroxyethyl)methylamino]-5-methyl- (CA  
INDEX NAME)

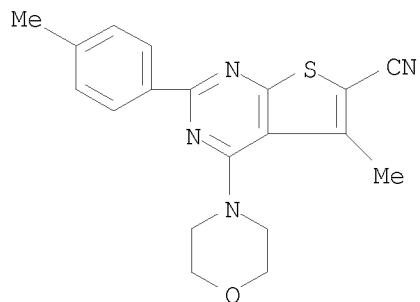


RN 731855-99-5 CAPLUS

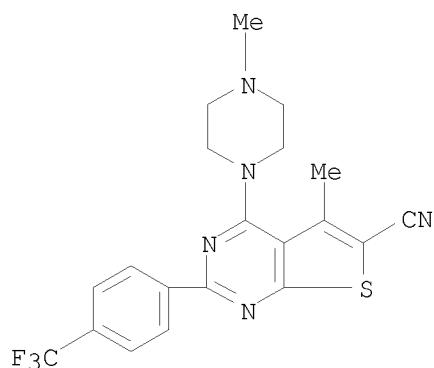
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,4-dimethoxyphenyl)-5-methyl-4-(4-morpholinyl)- (CA INDEX NAME)



RN 731856-00-1 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-2-(4-methylphenyl)-4-(4-morpholinyl)- (CA INDEX NAME)



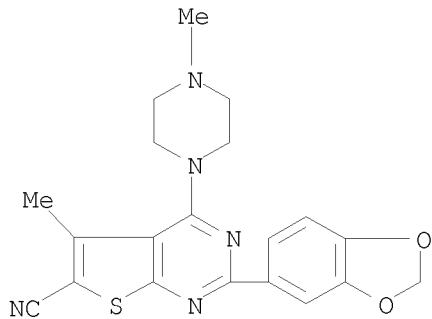
RN 731856-01-2 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-methyl-1-piperazinyl)-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 731856-02-3 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(1,3-benzodioxol-5-yl)-5-methyl-4-(4-methyl-1-piperazinyl)- (CA INDEX

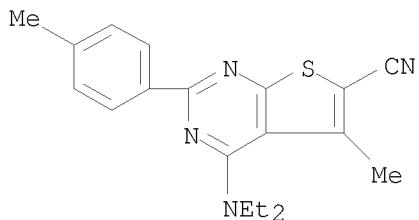
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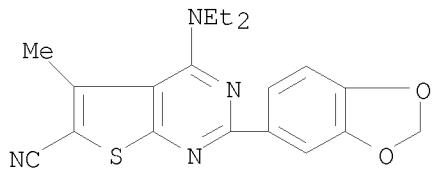
RN 731856-03-4 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)



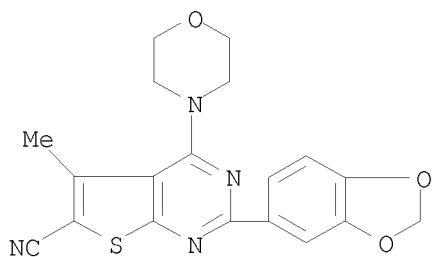
RN 731856-04-5 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(1,3-benzodioxol-5-yl)-4-(diethylamino)-5-methyl- (CA INDEX NAME)



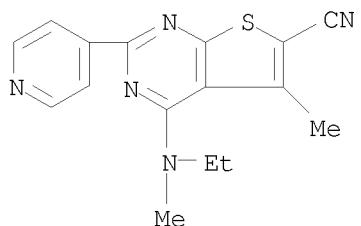
RN 731856-05-6 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(1,3-benzodioxol-5-yl)-5-methyl-4-(4-morpholinyl)- (CA INDEX NAME)



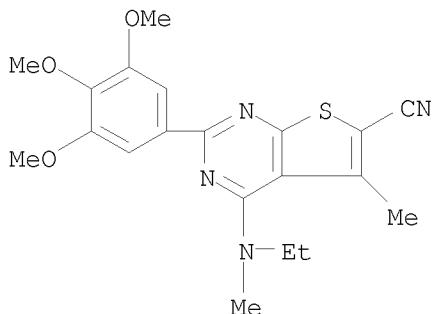
RN 731856-06-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(ethylmethylamino)-5-methyl-2-(4-pyridinyl)- (CA INDEX NAME)



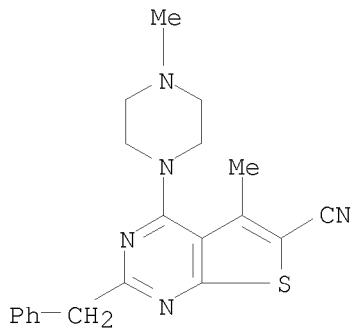
RN 731856-07-8 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(ethylmethylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

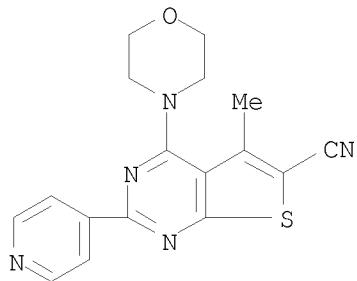


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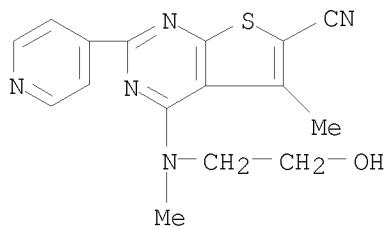
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-methyl-1-piperazinyl)-2-(phenylmethyl)- (CA INDEX NAME)



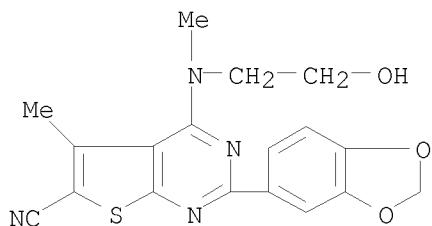
RN 731856-09-0 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-morpholinyl)-2-(4-pyridinyl)- (CA INDEX NAME)



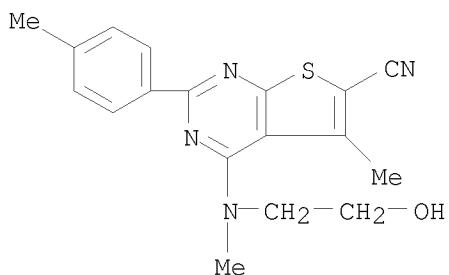
RN 731856-10-3 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(2-hydroxyethyl)methylamino]-5-methyl-2-(4-pyridinyl)- (CA INDEX NAME)



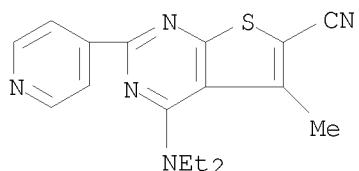
RN 731856-11-4 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(1,3-benzodioxol-5-yl)-4-[(2-hydroxyethyl)methylamino]-5-methyl- (CA INDEX NAME)



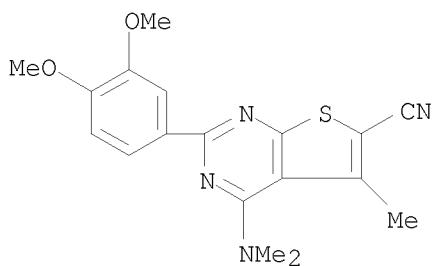
RN 731856-12-5 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[ (2-hydroxyethyl)methylamino]-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)



RN 731856-13-6 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-(4-pyridinyl)- (CA INDEX NAME)

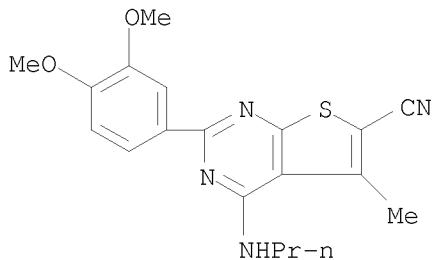


RN 731856-14-7 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,4-dimethoxyphenyl)-4-(dimethylamino)-5-methyl- (CA INDEX NAME)



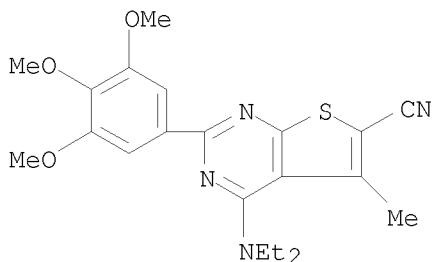
RN 731856-15-8 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,4-dimethoxyphenyl)-5-methyl-4-(propylamino)- (CA INDEX NAME)



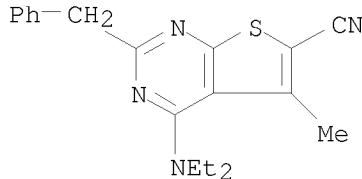
RN 731856-16-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



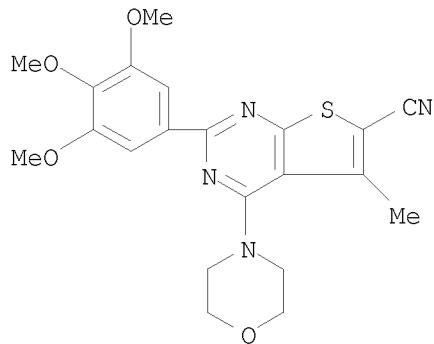
RN 731856-17-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-(phenylmethyl)- (CA INDEX NAME)

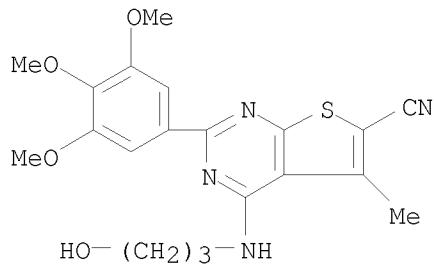


RN 731856-18-1 CAPLUS

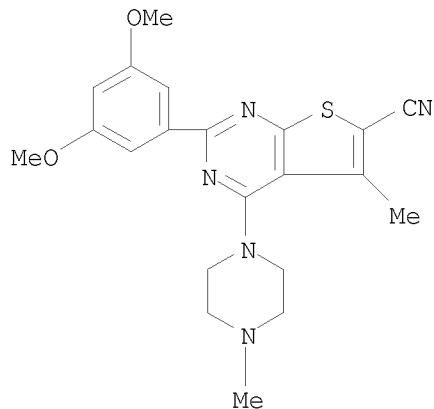
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-morpholinyl)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



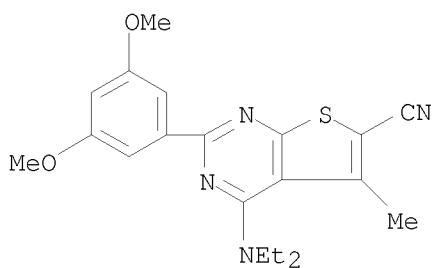
RN 731856-19-2 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[ (3-hydroxypropyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)



RN 731856-20-5 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,5-dimethoxyphenyl)-5-methyl-4-(4-methyl-1-piperazinyl)- (CA INDEX  
NAME)

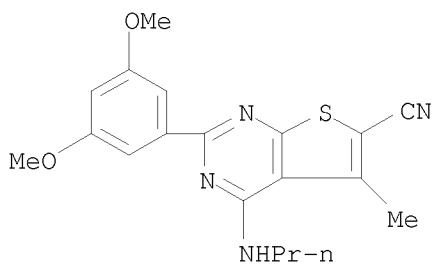


RN 731856-21-6 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-2-(3,5-dimethoxyphenyl)-5-methyl- (CA INDEX NAME)



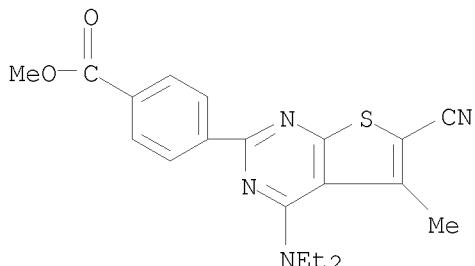
RN 731856-22-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,5-dimethoxyphenyl)-5-methyl-4-(propylamino)- (CA INDEX NAME)



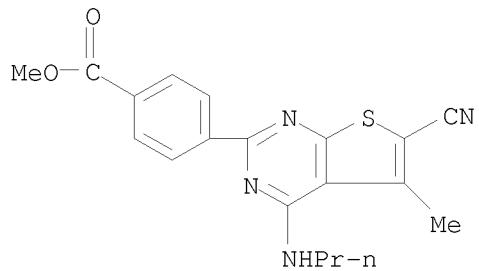
RN 731856-23-8 CAPLUS

CN Benzoic acid, 4-[6-cyano-4-(diethylamino)-5-methylthieno[2,3-d]pyrimidin-2-yl]-, methyl ester (CA INDEX NAME)



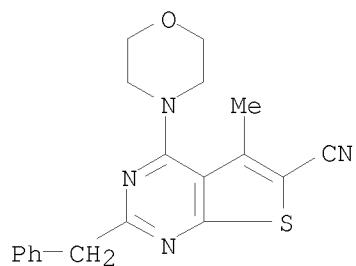
RN 731856-24-9 CAPLUS

CN Benzoic acid, 4-[6-cyano-5-methyl-4-(propylamino)thieno[2,3-d]pyrimidin-2-yl]-, methyl ester (CA INDEX NAME)



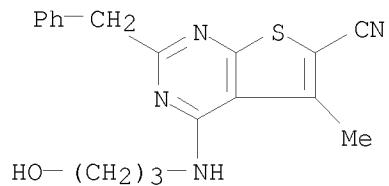
RN 731856-25-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-morpholinyl)-2-(phenylmethyl)- (CA INDEX NAME)



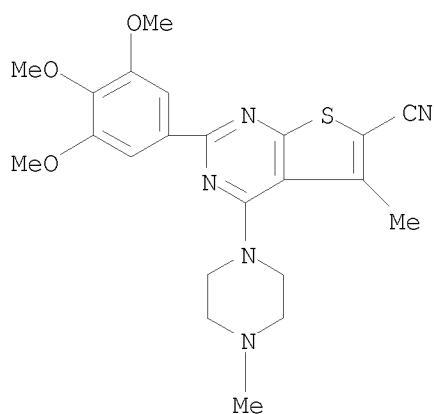
RN 731856-26-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(3-hydroxypropyl)amino]-5-methyl-2-(phenylmethyl)- (CA INDEX NAME)



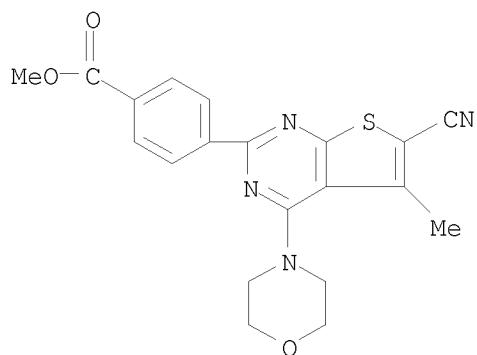
RN 731856-27-2 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-methyl-1-piperazinyl)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



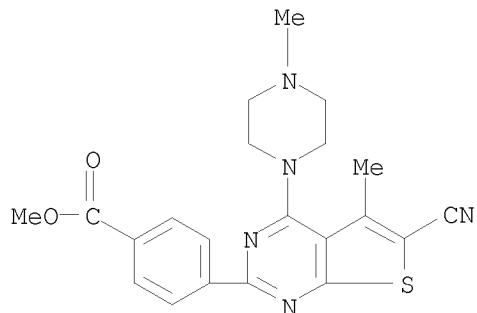
RN 731856-28-3 CAPLUS

CN Benzoic acid, 4-[6-cyano-5-methyl-4-(4-morpholinyl)thieno[2,3-d]pyrimidin-2-yl]-, methyl ester (CA INDEX NAME)



RN 731856-29-4 CAPLUS

CN Benzoic acid, 4-[6-cyano-5-methyl-4-(4-methyl-1-piperazinyl)thieno[2,3-d]pyrimidin-2-yl]-, methyl ester (CA INDEX NAME)

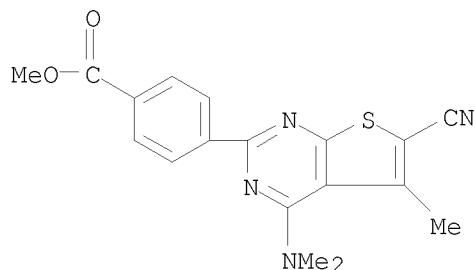


RN 731856-30-7 CAPLUS

CN Benzoic acid, 4-[6-cyano-4-(dimethylamino)-5-methylthieno[2,3-d]pyrimidin-

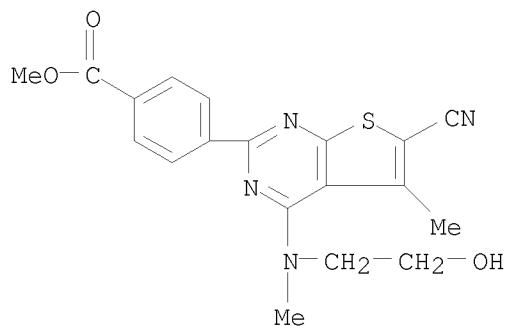
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2-yl]-, methyl ester (CA INDEX NAME)



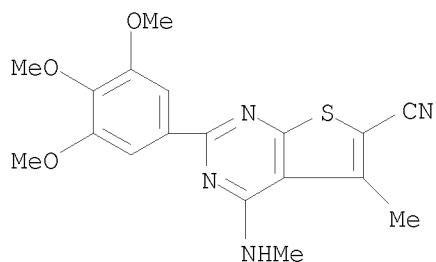
RN 731856-31-8 CAPLUS

CN Benzoic acid, 4-[6-cyano-4-[(2-hydroxyethyl)methylamino]-5-methylthieno[2,3-d]pyrimidin-2-yl]-, methyl ester (CA INDEX NAME)



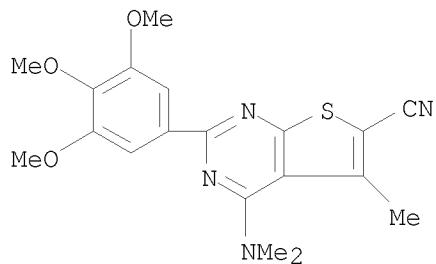
RN 731856-32-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(methylamino)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



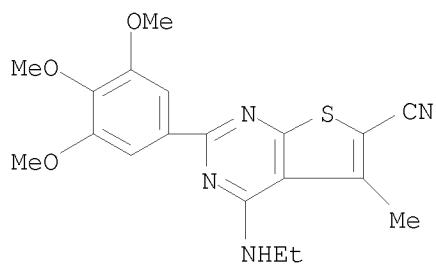
RN 731856-33-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(dimethylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



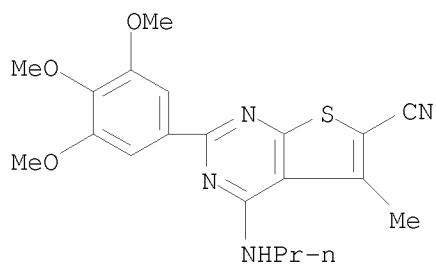
RN 731856-34-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(ethylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



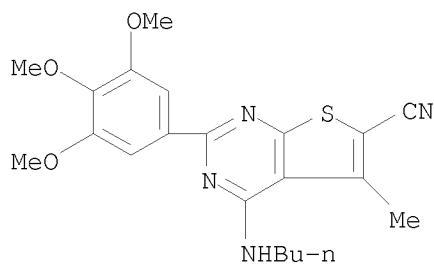
RN 731856-35-2 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(propylamino)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



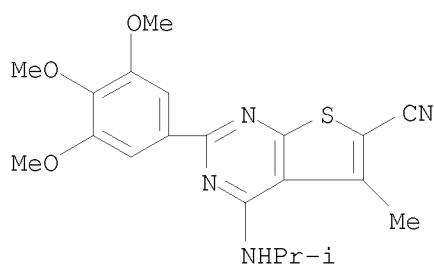
RN 731856-36-3 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(butylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



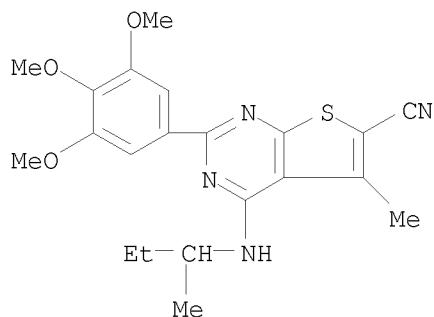
RN 731856-37-4 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-[(1-methylethyl)amino]-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)



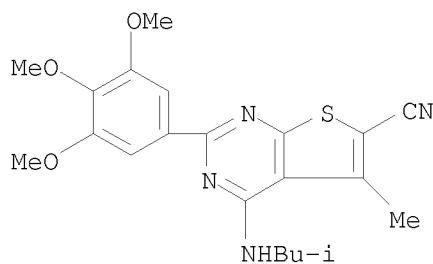
RN 731856-38-5 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-[(1-methylpropyl)amino]-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)



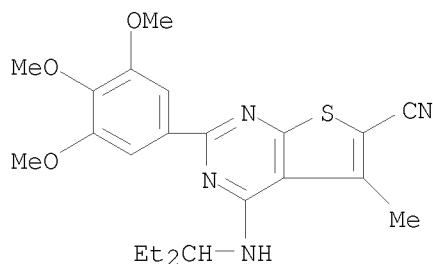
RN 731856-39-6 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-[(2-methylpropyl)amino]-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)



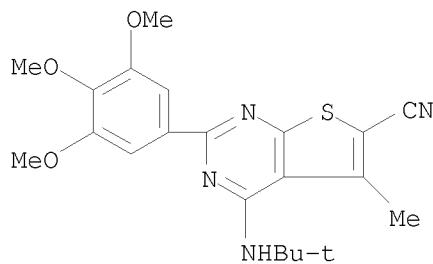
RN 731856-40-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(1-ethylpropyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)



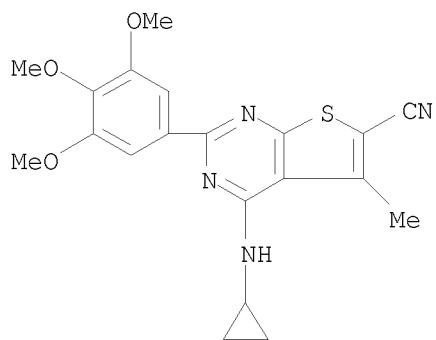
RN 731856-41-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(1,1-dimethylethyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA  
INDEX NAME)

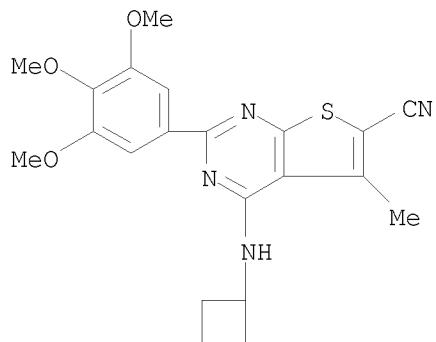


RN 731856-42-1 CAPLUS

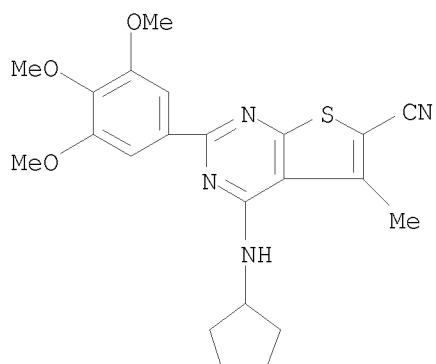
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclopropylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



RN 731856-43-2 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclobutylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

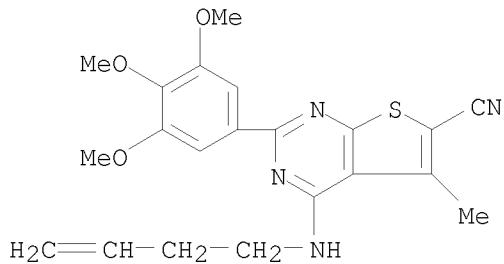


RN 731856-44-3 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclopentylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

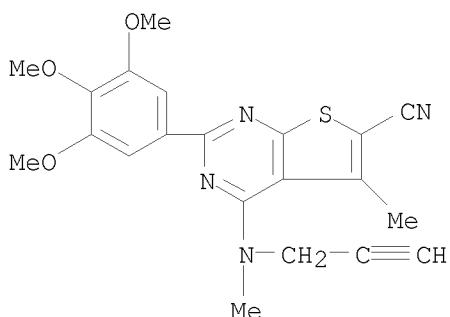


RN 731856-45-4 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(3-buten-1-ylamino)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

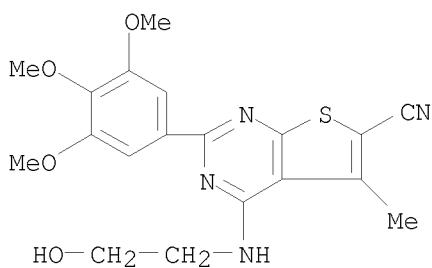
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RN 731856-47-6 CAPLUS

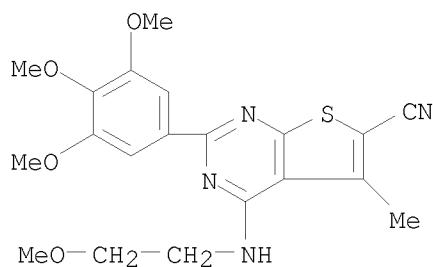
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(methyl-2-propynylamino)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

RN 731856-49-8 CAPLUS

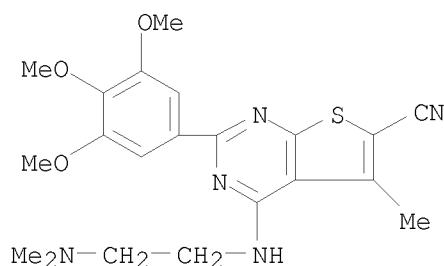
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(2-hydroxyethyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

RN 731856-50-1 CAPLUS

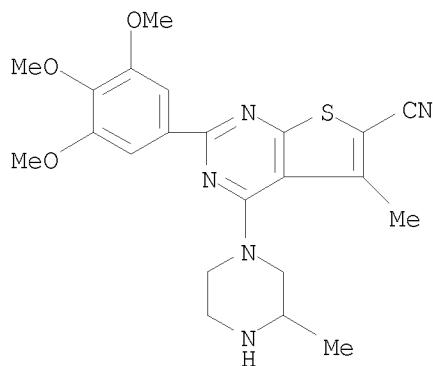
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(2-methoxyethyl)amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



RN 731856-52-3 CAPLUS

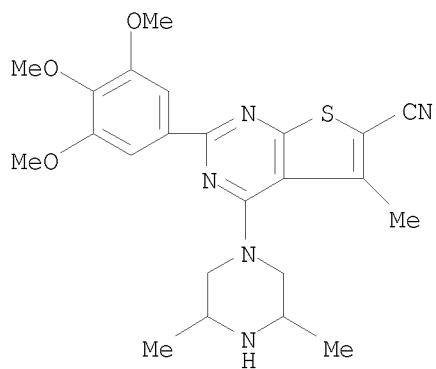
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[2-(dimethylamino)ethyl]amino]-5-methyl-2-(3,4,5-trimethoxyphenyl)-  
(CA INDEX NAME)

RN 731856-54-5 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(3-methyl-1-piperazinyl)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)

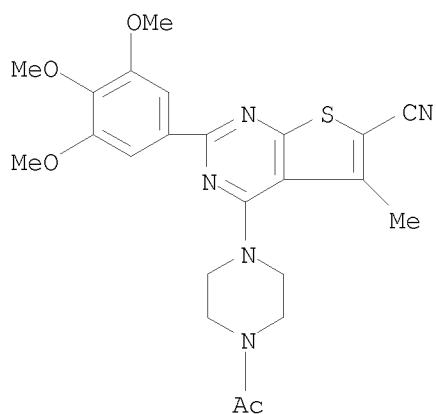
RN 731856-56-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(3,5-dimethyl-1-piperazinyl)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA  
INDEX NAME)



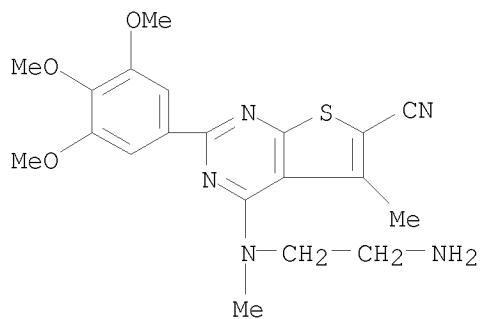
RN 731856-58-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(4-acetyl-1-piperazinyl)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)



RN 731856-60-3 CAPLUS

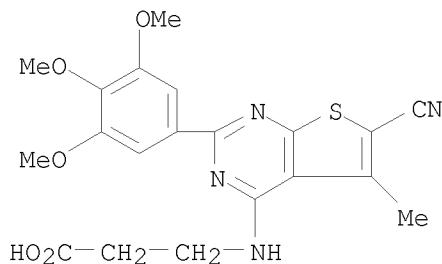
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(2-aminoethyl)methylamino]-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA  
INDEX NAME)



10542940

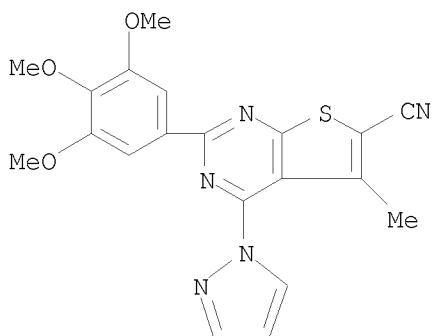
RN 731856-62-5 CAPLUS

CN  $\beta$ -Alanine, N-[6-cyano-5-methyl-2-(3,4,5-trimethoxyphenyl)thieno[2,3-d]pyrimidin-4-yl]- (CA INDEX NAME)



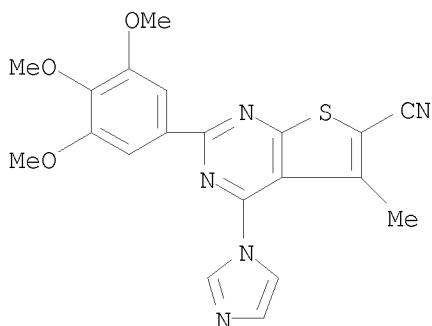
RN 731856-64-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(1H-pyrazol-1-yl)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



RN 731856-66-9 CAPLUS

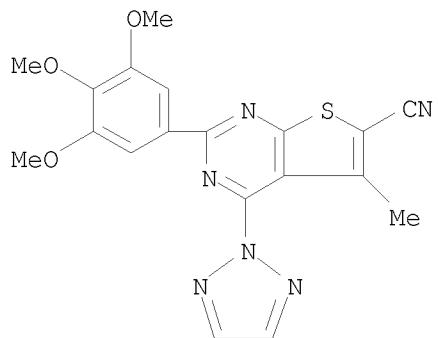
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(1H-imidazol-1-yl)-5-methyl-2-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



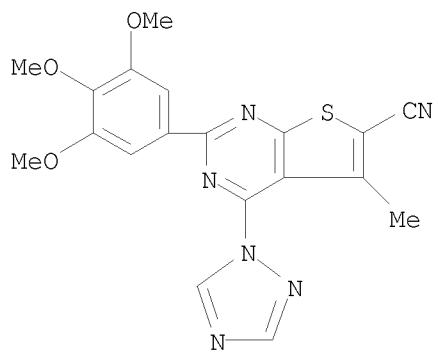
RN 731856-68-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(2H-1,2,3-triazol-2-yl)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX

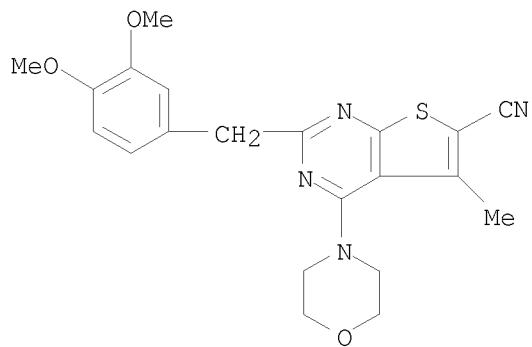
NAME)



RN 731856-70-5 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(1H-1,2,4-triazol-1-yl)-2-(3,4,5-trimethoxyphenyl)- (CA INDEX  
NAME)

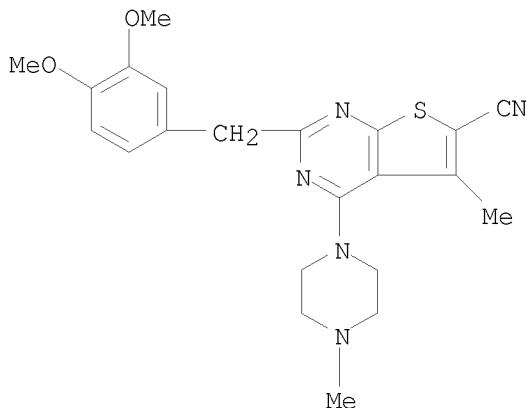
RN 731856-72-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-5-methyl-4-(4-morpholinyl)- (CA INDEX  
NAME)

10542940

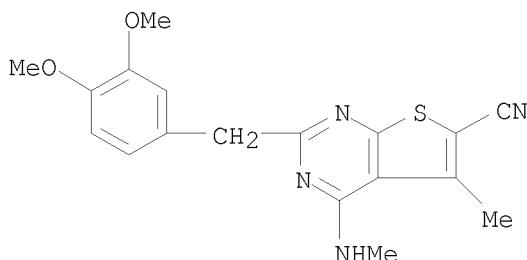
RN 731856-73-8 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-5-methyl-4-(4-methyl-1-piperazinyl)- (CA INDEX NAME)



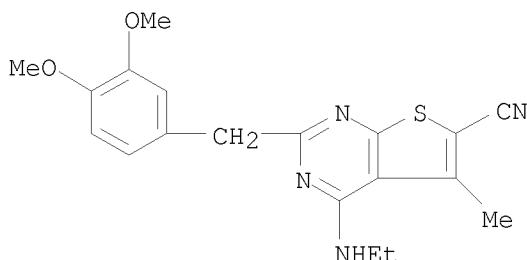
RN 731856-74-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-5-methyl-4-(methylamino)- (CA INDEX NAME)



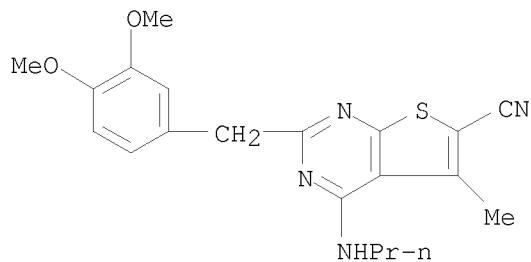
RN 731856-75-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-4-(ethylamino)-5-methyl- (CA INDEX NAME)



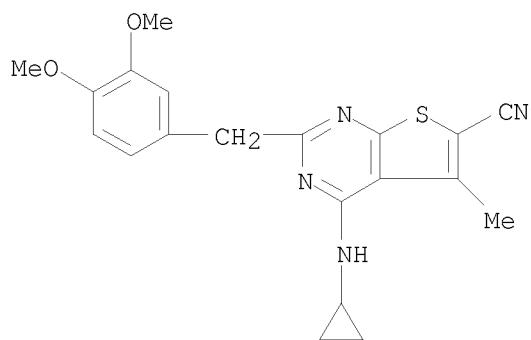
RN 731856-76-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-5-methyl-4-(propylamino)- (CA INDEX NAME)



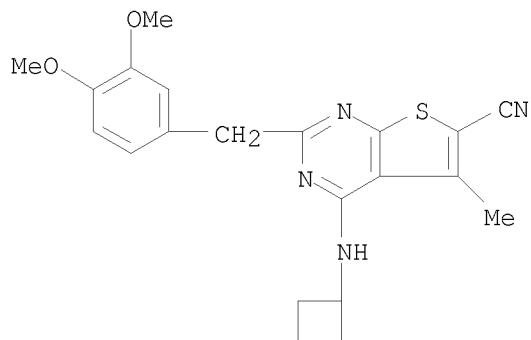
RN 731856-77-2 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclopropylamino)-2-[ (3, 4-dimethoxyphenyl)methyl]-5-methyl- (CA INDEX  
NAME)



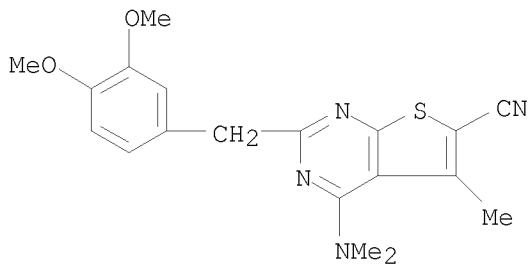
RN 731856-78-3 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclobutylamino)-2-[ (3, 4-dimethoxyphenyl)methyl]-5-methyl- (CA INDEX  
NAME)



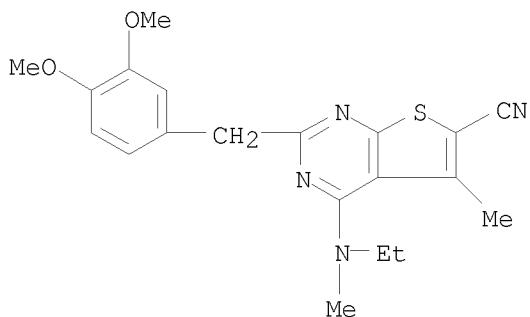
RN 731856-79-4 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[ (3, 4-dimethoxyphenyl)methyl]-4-(dimethylamino)-5-methyl- (CA INDEX  
NAME)



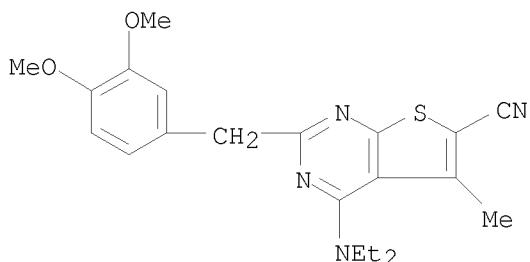
RN 731856-80-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-4-(ethylmethylamino)-5-methyl- (CA INDEX  
NAME)



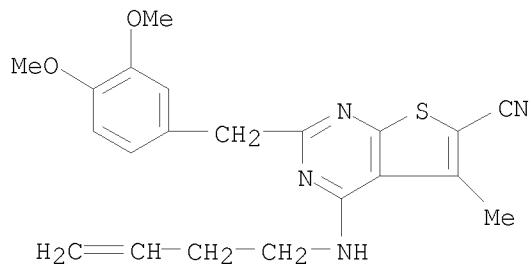
RN 731856-81-8 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-2-[(3,4-dimethoxyphenyl)methyl]-5-methyl- (CA INDEX  
NAME)



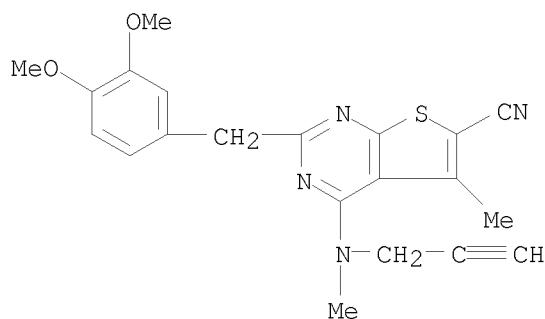
RN 731856-82-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(3-buten-1-ylamino)-2-[(3,4-dimethoxyphenyl)methyl]-5-methyl- (CA INDEX  
NAME)



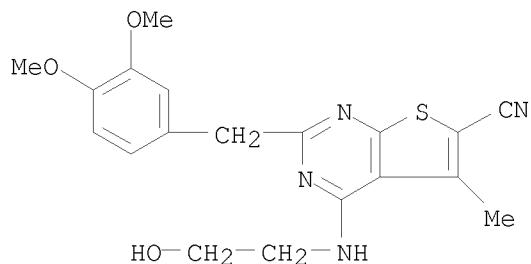
RN 731856-83-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-5-methyl-4-(methyl-2-propyn-1-ylamino)-  
(CA INDEX NAME)



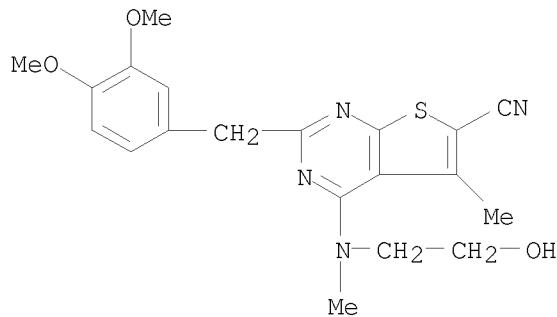
RN 731856-84-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-4-[(2-hydroxyethyl)amino]-5-methyl- (CA  
INDEX NAME)



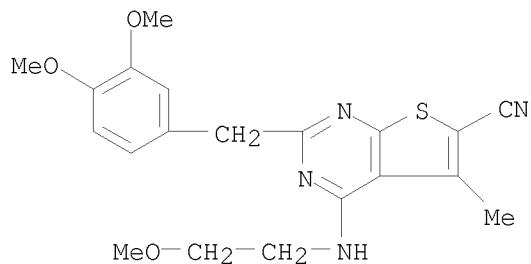
RN 731856-85-2 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-4-[(2-hydroxyethyl)methylamino]-5-methyl-  
(CA INDEX NAME)



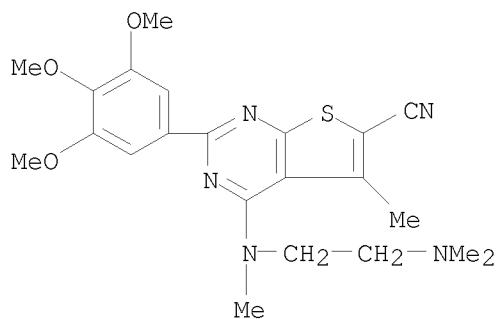
RN 731856-86-3 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-[(3,4-dimethoxyphenyl)methyl]-4-[(2-methoxyethyl)amino]-5-methyl- (CA  
INDEX NAME)



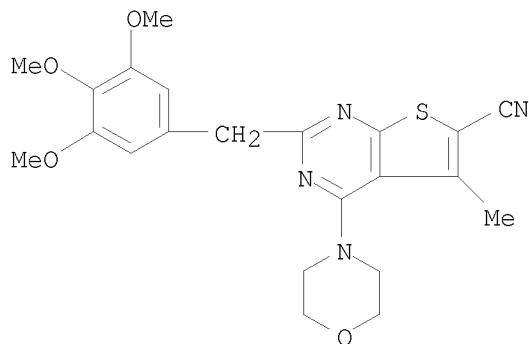
RN 731856-87-4 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(2-(dimethylamino)ethyl)methylamino]-5-methyl-2-(3,4,5-  
trimethoxyphenyl)- (CA INDEX NAME)



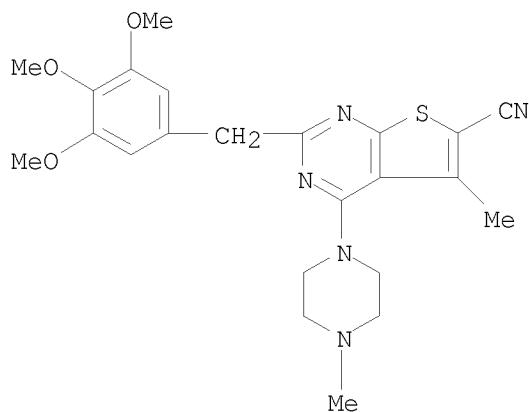
RN 731856-88-5 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-morpholinyl)-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX  
NAME)



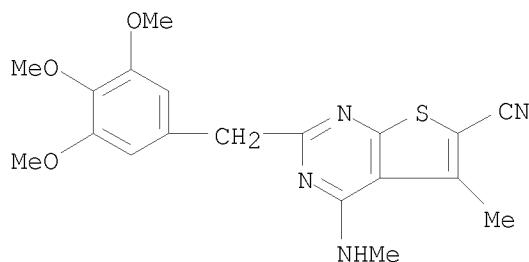
RN 731856-89-6 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-methyl-1-piperazinyl)-2-[(3,4,5-trimethoxyphenyl)methyl]-  
(CA INDEX NAME)



RN 731856-90-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(methylamino)-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX  
NAME)

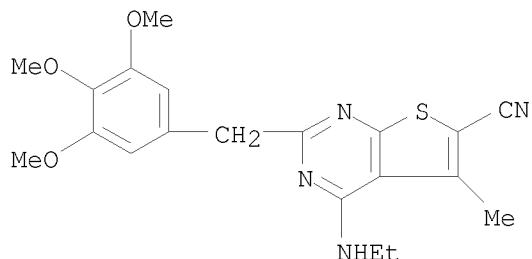


RN 731856-91-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(ethylamino)-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX

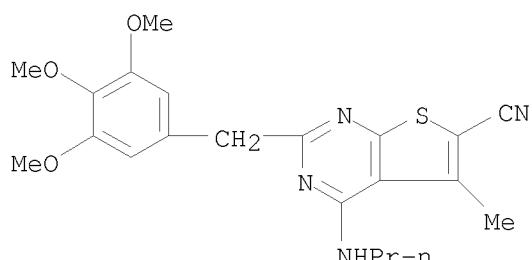
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NAME)



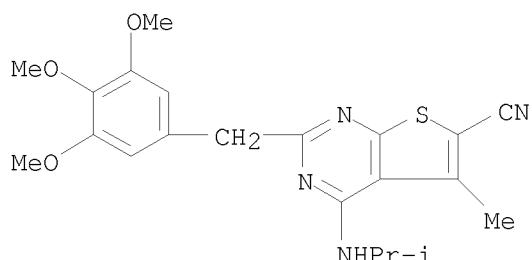
RN 731856-92-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(propylamino)-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX  
NAME)



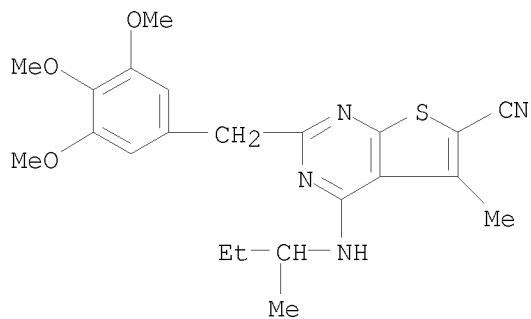
RN 731856-93-2 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-[(1-methylethyl)amino]-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA  
INDEX NAME)

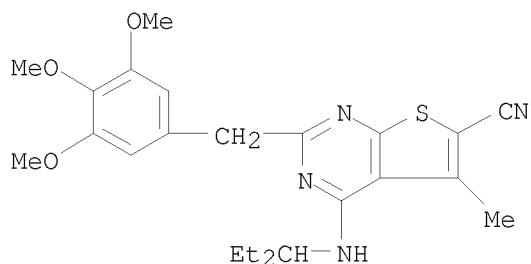


RN 731856-94-3 CAPLUS

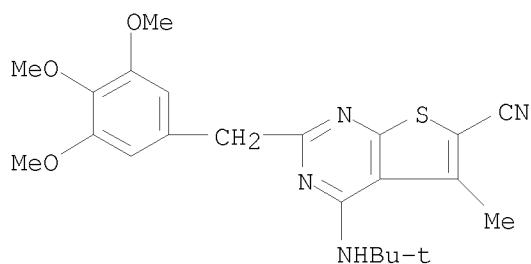
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-[(1-methylpropyl)amino]-2-[(3,4,5-trimethoxyphenyl)methyl]-  
(CA INDEX NAME)



RN 731856-95-4 CAPLUS

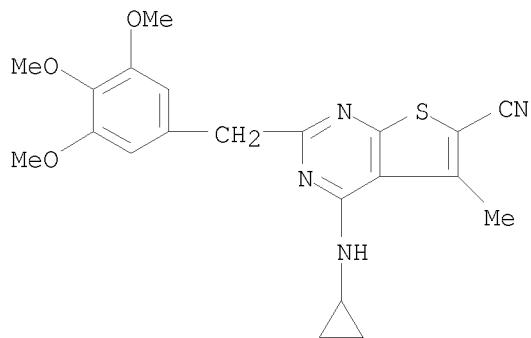
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[1-(ethylpropyl)amino]-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA  
INDEX NAME)

RN 731856-96-5 CAPLUS

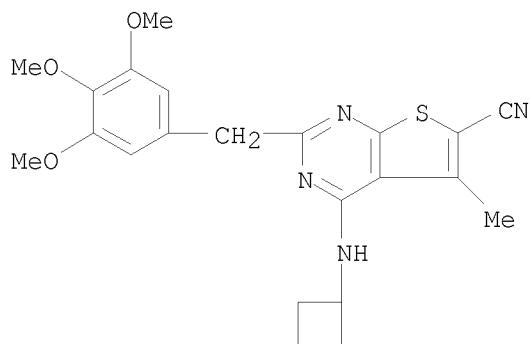
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[1-(1,1-dimethylethyl)amino]-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]-  
(CA INDEX NAME)

RN 731856-97-6 CAPLUS

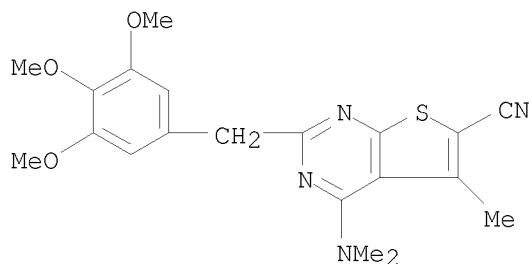
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclopropylamino)-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA  
INDEX NAME)



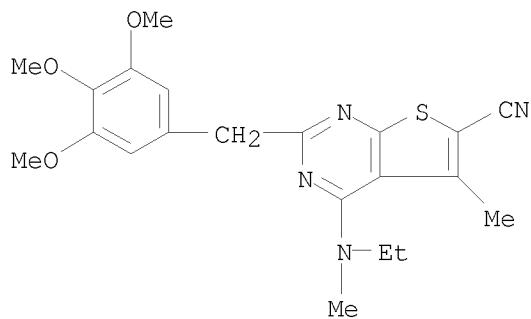
RN 731856-98-7 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclobutylamino)-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX NAME)



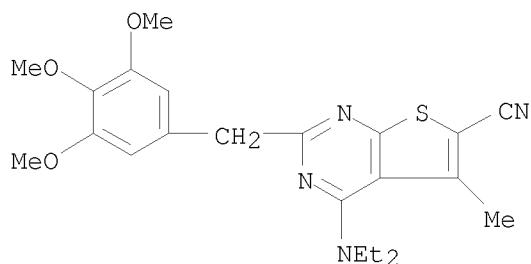
RN 731856-99-8 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(dimethylamino)-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX NAME)



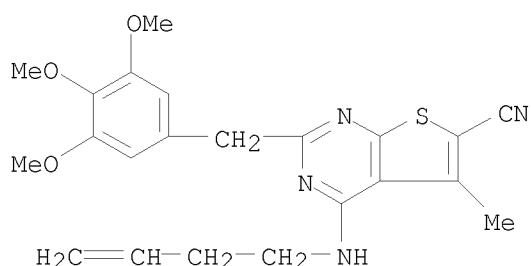
RN 731857-00-4 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(ethylmethylamino)-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX NAME)



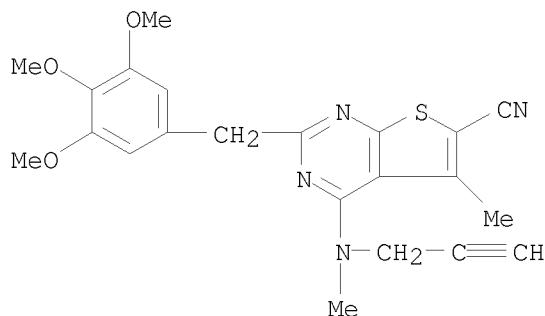
RN 731857-01-5 CAPLUS  
 CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
 4-(diethylamino)-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX  
 NAME)



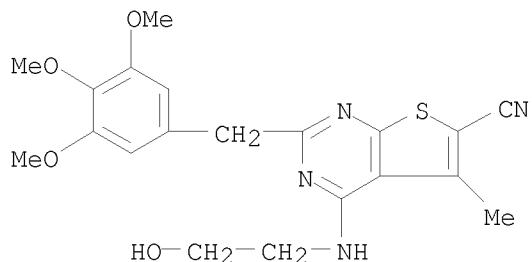
RN 731857-02-6 CAPLUS  
 CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
 4-(3-buten-1-ylamino)-5-methyl-2-[(3,4,5-trimethoxyphenyl)methyl]- (CA  
 INDEX NAME)



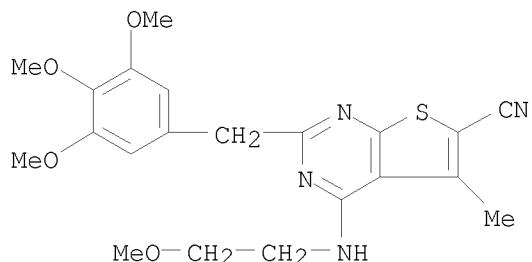
RN 731857-03-7 CAPLUS  
 CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
 5-methyl-4-(methyl-2-propyn-1-ylamino)-2-[(3,4,5-trimethoxyphenyl)methyl]-  
 (CA INDEX NAME)



RN 731857-04-8 CAPLUS

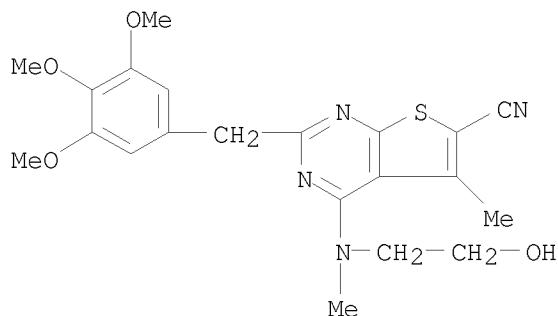
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[ (2-hydroxyethyl)amino]-5-methyl-2-[ (3,4,5-trimethoxyphenyl)methyl]-  
(CA INDEX NAME)

RN 731857-05-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[ (2-methoxyethyl)amino]-5-methyl-2-[ (3,4,5-trimethoxyphenyl)methyl]-  
(CA INDEX NAME)

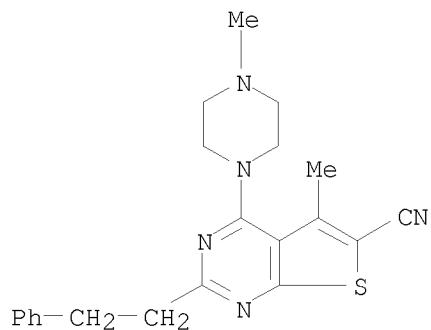
RN 731857-06-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[ (2-hydroxyethyl)methylamino]-5-methyl-2-[ (3,4,5-  
trimethoxyphenyl)methyl]- (CA INDEX NAME)



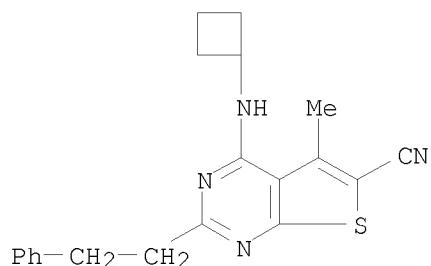
RN 731857-07-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-methyl-1-piperazinyl)-2-(2-phenylethyl)- (CA INDEX NAME)



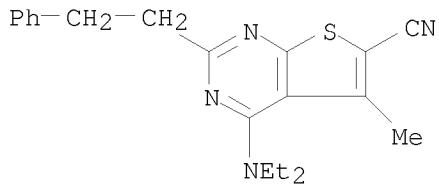
RN 731857-08-2 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(cyclobutylamino)-5-methyl-2-(2-phenylethyl)- (CA INDEX NAME)

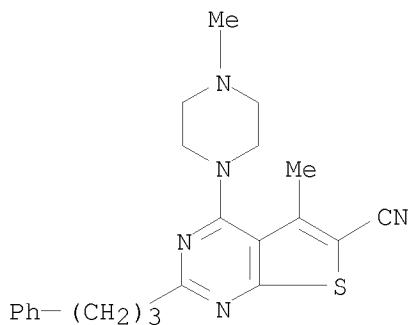


RN 731857-09-3 CAPLUS

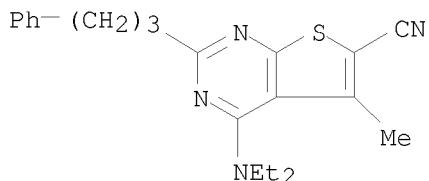
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-(2-phenylethyl)- (CA INDEX NAME)



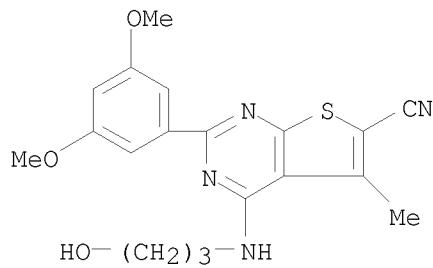
RN 731857-10-6 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-(4-methyl-1-piperazinyl)-2-(3-phenylpropyl)- (CA INDEX NAME)



RN 731857-11-7 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-(diethylamino)-5-methyl-2-(3-phenylpropyl)- (CA INDEX NAME)

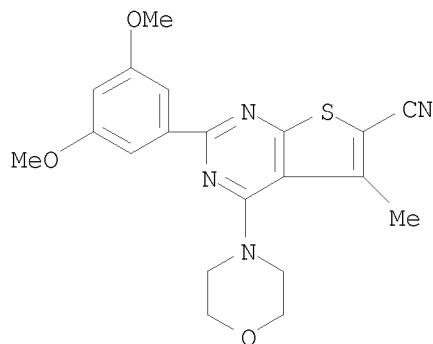


RN 731857-12-8 CAPLUS  
CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,5-dimethoxyphenyl)-4-[(3-hydroxypropyl)amino]-5-methyl- (CA INDEX NAME)



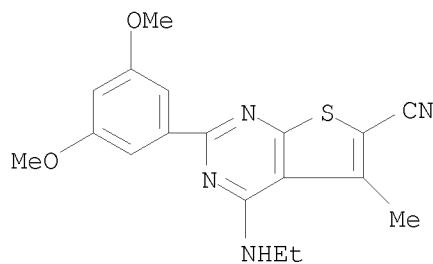
RN 731857-13-9 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,5-dimethoxyphenyl)-5-methyl-4-(4-morpholinyl)- (CA INDEX NAME)



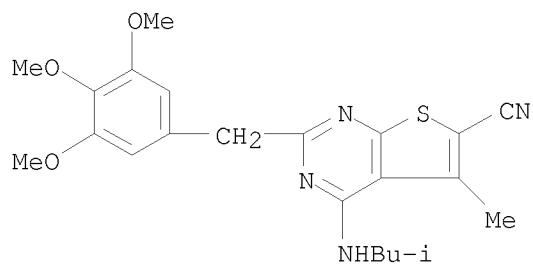
RN 731857-14-0 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
2-(3,5-dimethoxyphenyl)-4-(ethylamino)-5-methyl- (CA INDEX NAME)



RN 731857-15-1 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
5-methyl-4-[(2-methylpropyl)amino]-2-[(3,4,5-trimethoxyphenyl)methyl]-  
(CA INDEX NAME)

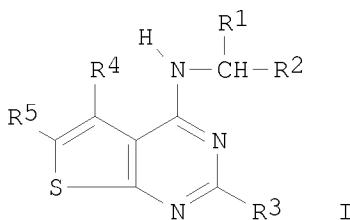


OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD  
(5 CITINGS)  
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2002:256265 CAPLUS  
 DOCUMENT NUMBER: 136:294845  
 TITLE: Preparation of thienopyrimidine derivatives as cGMP-specific phosphodiesterase inhibitors  
 INVENTOR(S): Umeda, Nobuhiro; Takada, Mitsumasa; Ikeyama, Seiichi;  
 Ichikawa, Kimiko  
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 56 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026745	A1	20020404	WO 2001-JP8530	20010928
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001090311	A	20020408	AU 2001-90311	20010928
CA 2423981	A1	20030328	CA 2001-2423981	20010928
EP 1329454	A1	20030723	EP 2001-970282	20010928
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			JP 2000-299872	A 20000929
			WO 2001-JP8530	W 20010928

OTHER SOURCE(S): MARPAT 136:294845  
 GI



AB The title compds. I [R1 is hydrogen or C1-6 alkyl; R2 is optionally substituted C3-8 cycloalkyl, optionally substituted Ph, or an optionally substituted saturated or unsatd. heterocyclic group containing one to four heteroatoms selected from among N, O and S; R3 is an optionally substituted saturated or unsatd. heterocyclic group (containing one to four heteroatoms selected from among N, O and S), etc. ; R4 is hydrogen, C1-6

alkyl, hydroxyl, C1-6 alkoxy, halogeno, C1-6 haloalkyl, nitro, or cyano; and R5 is cyano, optionally substituted Ph, an optionally substituted saturated or unsatd. heterocyclic group containing one to four heteroatoms selected from among N, O and S, or the like; and the like are prepared. A process for preparing I is claimed. I are selective inhibitors of PDE5. Several compds. of this invention showed potent inhibiting activity against PDE5 (IC<sub>50</sub> values of 0.095 nM to 0.52 nM), vs. IC<sub>50</sub> of 14 nM shown by sildenafil.

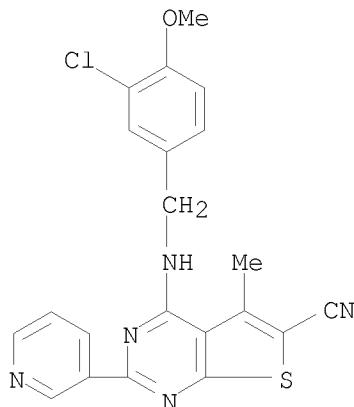
IT 408322-40-7P 408322-71-4P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thienopyrimidine derivs. as cGMP-specific phosphodiesterase inhibitors)

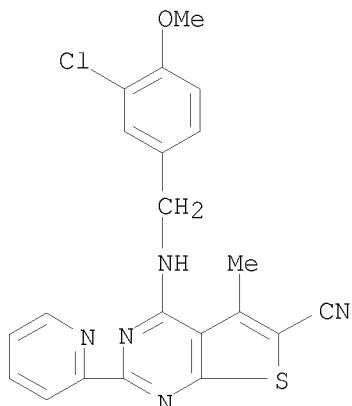
RN 408322-40-7 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(3-chloro-4-methoxyphenyl)methyl]amino]-5-methyl-2-(3-pyridinyl)- (CA INDEX NAME)



RN 408322-71-4 CAPLUS

CN Thieno[2,3-d]pyrimidine-6-carbonitrile,  
4-[(3-chloro-4-methoxyphenyl)methyl]amino]-5-methyl-2-(2-pyridinyl)- (CA INDEX NAME)



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OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(1 CITINGS)  
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT